Archives of Virology

Official Journal of the Virology Division
of the International Union of Microbiological Societies

Volume 124 1992

ISSN 0304-8608

Springer-Verlag Wien New York

Archives of Virology

Official Journal of the Virology Division
International Union of Microbiological Societies

Editorial Board

J. W. Almond, Reading
D. R. Lowy, Bethesda, Md.
F. A. Murphy, Davis, Calif. (Editor-in-Chief)
Y. Nagai, Nagoya
C. Scholtissek, Giessen
J. H. Strauss, Pasadena, Calif.
A. Vaheri, Helsinki
M. H. V. Van Regenmortel, Strasbourg
D. O. White, Melbourne

Virology Division

M. C. Horzinek, Utrecht

Special Issues

C. H. Calisher, Fort Collins, Colo.
H.-D. Klenk, Marburg

Advisory Board

D. J. Alexander, New Haw
Y. Becker, Jerusalem
G. J. Belsham, Woking
R. W. Bingham, Edinburgh
K. Bister, Köln
E. De Clercq, Leuven
J. M. Dalrymple, Frederick, Md.
G. Darai, Heidelberg
F. Deinhardt, München
U. Desselberger, Birmingham
N. J. Dimmock, Coventry
H. J. Eggers, Köln
H. J. Field, Cambridge
B. N. Fields, Boston, Mass.
H. Gelderblom, Berlin
W. Gerlich, Göttingen
A. J. Gibbs, Canberra
L. Gissmann, Heidelberg
R. W. Goldbach, Wageningen
R. I. Hamilton, Vancouver
I. H. Holmes, Parkville, Vic.
Y. Hou, Beijing
P. M. Howley, Bethesda, Md.
R. Hull, Norwich
A. P. Kendal, Atlanta, Ga.
U. Koszinowski, Ulm
C. Kunz, Wien
E. Kurstak, Montreal
H. Ludwig, Berlin
D. K. Lvov, Moscow
B. W. J. Mahy, Atlanta, Ga.
R. Marusyk, Edmonton
V. ter Meulen, Würzburg
T. Mikami, Tokyo
K. Mölling, Berlin
R. Mori, Fukuoka
N. Müller-Lantzsch, Homburg
Y. Nishiyama, Nagoya
A. Nomoto, Tokyo
I. Ørstavik, Oslo
J. Ortin, Madrid
S. Patterson, Harrow
P. E. Pellett, Atlanta, Ga.
U. Pettersson, Uppsala
R. F. Pettersson, Stockholm
W. Plowright, Goring-On-Thames
D. J. Rowlands, Woking
G. Siegl, Bern
J. Storz, Baton Rouge, La.
N. D. Stow, Glasgow
M. J. Studdert, Parkville, Vic.
J. Svoboda, Praha
S. Urasawa, Sapporo
G. Wadell, Umeå
S. Welling-Wester, Groningen
H. A. Wood, Ithaca, N.Y.
R. H. Yolken, Baltimore, Md.

Editorial Assistant: C. Mandl, Wien

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions including microforms is transferred to the publisher. For copyright regulations and for further information, see the detailed "Instructions to Authors".

© 1992 by Springer-Verlag/Wien

Contents

Ackermann, H.-W.: Frequency of morphological phage descriptions (Brief Review) 201
– **Du Bow, M. S., Jarvis, A. W., Jones, L. A., Krylov, V. N., Maniloff, J., Rocourt, J., Safferman, R. S., Schneider, J., Seldin, L., Sozzi, T., Stewart, P. R., Werquin, M., Wünsche, L.:** The species concept and its application to tailed phages 69
Aranda-Anzaldo, A.: Altered chromatin higher-order structure in cells infected by herpes simplex virus type 1 245
Arzuza, O., Urzainqui, A., Díaz-Ruiz, J. R., Tabarés, E.: Morphogenesis of African swine fever virus monkey kidney cells after reversible inhibition of replication by cycloheximide (Brief Report) 343

Bachmann, M., s. Kienzle, N.
Bando, H., Choi, H., Ito, Y., Nakagaki, M., Kawase, S.: Structural analysis on the single-stranded genomic DNAs of the virus newly isolated from silkworm: the DNA molecules share a common terminal sequence (Brief Report) 187
Becker, Y., s. Berkowitz, C.
Berkowitz, C., Becker, Y.: Recombinant Interleukin-1α, Interleukin-2 and M-CSF-1 enhance the survival of newborn C57BL/6 mice inoculated intraperitoneally with a lethal dose of herpes simplex virus-1 83
Bonsdorff, C.-H. v., s. Maunula, L.
Bryan, G. T., Gardner, R. C., Forster, R. L. S.: Nucleotide sequence of the coat protein gene of a strain of clover yellow vein virus from New Zealand: conservation of a stem-loop structure in the 3′ region of potyviruses 133
Bukholm, G., s. Modalsli, K.

Cabauatan, P. Q., s. Kano, H.
Carter, M. J., s. Willcocks, M. M.
Ceroni, M., s. Di Martino, A.
Charreau, B., s. Gilbert, M. A.
Chasey, D., Lucas, M., Westcott, D., Williams, M.: European brown hare syndrome in the U.K.; a calicivirus related to but distinct from that of viral haemorrhagic disease in rabbits (Brief Report) 363
Choi, H., s. Bando, H.
Christensen, L. S., Medveczky, I., Strandbygaard, B. S., Pejsak, Z.: Characterization of field isolates of suid herpesvirus 1 (Aujeszky's disease virus) as derivatives of attenuated vaccine strains 225
Clegg, J. C. S., s. Griffiths, C. M.
Creelan, J. L., s. Meehan, B. M.
Cybinski, D. H., Davis, S. S., Zakrzewski, H.: Antigenic variation of the bovine ephemeral fever virus glycoprotein 211

Davis, S. S., s. Cybinski, D. H.
Degré, M., s. Modalsli, K.
D'Halluin, J. C., s. Gomes, S. A.
Díaz-Ruiz, J. R., s. Arzuza, O.
Di Martino, A., Safar, J., Ceroni, M., Gibbs, C. J., Jr.: Purification of non-infectious ganglioside preparations from scrapie-infected brain tissue 111

DuBow, M. S., s. Ackermann, H.-W.

Earle, J. A. P., s. Meehan, B. M.
Ennis, F. A., s. Kurane, I.

Ficorilli, N., s. Nagesha, H. S.
Forster, R. L. S., s. Bryan, G. T.
Furuya, T., Hasegawa, A., Miyazawa, T., Miki, K., Mikami, T.: Detection of anti-*gag* antibodies of feline immunodeficiency virus in cat sera by enzyme-linked immunosorbent assay (Brief Report) 355

Gardner, R. C., s. Bryan, G. T.
Gibbs, C. J., Jr., s. Di Martino, A.
Gilbert, M. A., Charreau, B., Vicart, P., Paulin, D., Nandi, P. K.: Mechanism of entry of a xenotropic MMuLV-derived recombinant retrovirus into porcine cells using the expression of the reporter *nlslacZ* gene 57
Ginzburg, V. P., s. Klimov, A. I.
Gomes, S. A., Niel, C., D'Halluin, J. C.: Growth of fastidious adenovirus serotype 40 in HRT18 cells: interactions with E1A and E1B deletion mutants of subgenus C adenoviruses 45
Gough, K. H., Shukla, D. D.: Major sequence variations in the N-terminal region of the capsid protein of a severe strain of passionfruit woodiness potyvirus (Brief Report) 389
Griffiths, C. M., Wilson, S. M., Clegg, J. C. S.: Sequence of the nucleocapsid protein gene of Machupo virus: close relationship with another South American pathogenic arenavirus, Junín (Brief Report) 371

Hasegawa, A., s. Furuya, T.
Heider, A., s. Klimov, A. I.
Heider, H., s. Klimov, A. I.
Hibino, H., s. Kano, H.
Hoey, E. M., s. Meehan, B. M.

Ishikawa, K., s. Kano, H.
Ito, Y., s. Bando, H.
– s. Miyahara, K.
Iwasaki, Y., s. Ohara, Y.
Izumo, S., s. Ohara, Y.

Janus, J., s. Kurane, I.
Jarvis, A. W., s. Ackermann, H.-W.
Jiang, B. M., Saif, L. J., In vitro transcription and translation of genomic RNA from a porcine group C rotavirus (Brief Report) 181
Jones, L. A., s. Ackermann, H.-W.

Kano, H., Koizumi, M., Noda, H., Hibino, H., Ishikawa, K., Omura, T., Cabauatan, P. Q., Koganezawa, H.: Nucleotide sequence of capsid protein gene of rice tungro bacilliform virus (Brief Report) 157
Kawano, M., s. Miyahara, K.
Kawase, S., s. Bando, H.
Keast, D., Vasquez, A. R.: Inhibition in vitro of the replication of murine cytomegalovirus or reovirus type 3 by the glutamine analogue acivicin 235
Kienzle, N., Bachmann, M., Müller, W. E. G., Müller-Lantzsch, N.: Expression and cellular localization of the Nef protein from human immunodeficiency virus-1 in stably transfected B-cells 123
Kit, M., s. Kit, S.
Kit, S., Otsuka, H., Kit, M.: Expression of porcine pseudorabies virus genes by a bovine herpesvirus-1 (infectious bovine rhinotracheitis virus) vector 1
Kitada, S., s. Miyahara, K.
Klimov, A. I., Markushin, S. G., Prösch, S., Ginzburg, V. P., Heider, H., Heider, A. M., Schröeder, C., Webster, R. G.: Relation between drug resistance and antigenicity among norakin-resistant mutants of influenza A (fowl plague) virus 147
Kobayashi, I., s. Ohara, Y.

Koganezawa, H., s. Kano, H.
Koizumi, M., s. Kano, H.
Komada, H., s. Miyahara, K.
Krylov, V. N., s. Ackermann, H.-W.
Kuo, T. T., s. Yang, B. C.
Kurane, I., Janus, J., Ennis, F. A.: Dengue virus infection of human skin fibroblasts in vitro production of IFN-β, IL-6 and GM-CSF 21
Kusagawa, S., s. Miyahara, K.

Lucas, M., s. Chasey, D.
Lyaku, J. R. S., Nettleton, P. F., Marsden, H.: A comparison of serological relationships among five ruminant alphaherpesviruses by ELISA (Brief Report) 333

Ma, H. I., s. Yang, B. C.
McNeil, J. R., s. Nagesha, H. S.
McNulty, M. S., s. Meehan, B. M.
Maniloff, J., s. Ackermann, H.-W.
Markushin, S. G., s. Klimov, A. I.
Marsden, H., s. Lyaku, J. R. S.
Matsumura, H., s. Miyahara, K.
Maunula, L., Svensson, L., Bonsdorff, C.-H. v.: A family outbreak of gastroenteritis caused by group C rotavirus 269
Medveczky, I., s. Christensen, L. S.
Meehan, B. M., Todd, D., Creelan, J. L., Earle, J. A. P., Hoey, E. M., McNulty, M. S.: Characterization of viral DNAs from cells infected with chicken anaemia agent: sequence analysis of the cloned replicative form and transfection capabilities of cloned genome fragments 301
Mikalsen, S. O., s. Modalsli, K.
Mikami, T., s. Furuya, T.
Miki, K., s. Furuya, T.
Miyahara, K., Kitada, S., Yoshimoto, M., Matsumura, H., Komada, H., Kawano, M., Tsurudome, M., Kusagawa, S., Nishio, M., Ito, Y.: Molecular evolution of human paramyxoviruses. Nucleotide sequence analyses of the human parainfluenza type 1 virus NP and M protein genes and construction of phylogenetic trees for all the human paramyxoviruses 255
Miyazawa, T., s. Furuya, T.
Modalsli, K., Bukholm, G., Mikalsen, S. O., Degré, M.: Coxsackie B1 virus-induced changes in cell membrane-associated functions are not responsible for altered sensitivity to bacterial invasiveness 321
Müller, W. E. G., s. Kienzle, N.
Müller-Lantzsch, N., s. Kienzle, N.
Murakami, Y., s. Tsuda, T.

Nagesha, H. S., McNeil, J. R., Ficorilli, N., Studdert, M. J.: Cloning and restriction endonuclease mapping of the genome of an equine herpesvirus 4 (equine rhinopneumonitis virus), strain 405/76 (Brief Report) 379
Nakagaki, M., s. Bando, H.
Nandi, P. K., s. Gilbert, M. A.
Nettleton, P. F., s. Lyaku, J. R. S.
Niel, C., s. Gomes, S. A.
Nishio, M., s. Miyahara, K.
Noda, H., s. Kano, H.

Ohara, Y., Iwasaki, Y., Izumo, S., Kobayashi, I., Yoshioka, A.: Search for human T-cell leukemia virus type I (HTLV-I) proviral sequences by polymerase chain reaction in the central nervous system tissue of HTLV-I-associated myelopathy 31

Omura, T., s. Kano, H.
Onodera, T., s. Tsuda, T.
Otsuka, H., s. Kit, S.

Paulin, D., s. Gilbert, M. A.
Pejsak, Z., s. Christensen, L. S.
Polakova, K., Russ, G.: Use of Brefeldin A to localize block in intracellular transport of vesicular stomatitis virus G protein on interferon-treated cells (Brief Report) 171
Prösch, S., s. Klimov, A. I.

Richt, J. A., Stitz, L.: Borna disease virus-infected astrocytes function in vitro as antigen-presenting and target cells for virus-specific CD4-bearing lymphocytes 95
Rocourt, J., s. Ackermann, H.-W.
Russ, G., s. Polakova, K.

Safar, J., s. Di Martino, A.
Safferman, R. S., s. Ackermann, H.-W.
Saif, L. J., s. Jiang, B. M.
Schneider, J., s. Ackermann, H.-W.
Schröeder, C., s. Klimov, A. I.
Seldin, L., s. Ackermann, H.-W.
Shukla, D. D., s. Gough, K. H.
Sozzi, T., s. Ackermann, H.-W.
Stewart, P. R., s. Ackermann, H.-W.
Stitz, L., s. Richt, J. A.
Strandbygaard, B. S., s. Christensen, L. S.
Studdert, M. J., s. Nagesha, H. S.
Sugimura, T., s. Tsuda, T.
Svensson, L., s. Maunula, L.

Tabarés, E., s. Arzuza, O.
Todd, D., s. Meehan, B. M.
Tsuda, T., Onodera, T., Sugimura, T., Murakami, Y.: Induction of protective immunity and neutralizing antibodies to pseudorabies virus by immunization of anti-idiotypic antibodies 291
Tsurudome, M., s. Miyahara, K.

Urzainqui, A., s. Arzuza, O.

Vasquez, A. R., s. Keast, D.
Vicart, P., s. Gilbert, M. A.

Webster, R. G., s. Klimov, A. I.
Werquin, M., s. Ackermann, H.-W.
Westcott, D., s. Chasey, D.
Willcocks, M. M., Carter, M. J.: The 3′ terminal sequence of a human astrovirus 279
Williams, M., s. Chasey, D.
Wilson, S. M., s. Griffiths, C. M.
Wünsche, L., s. Ackermann, H.-W.

Yang, B. C., Ma, H. I., Kuo, T. T.: Kinetic study of alterations in the host RNA polymerase and protein synthesis during phage Xp 10 infection (Brief Report) 165
Yoshimoto, M., s. Miyahara, K.
Yoshioka, A., s. Ohara, Y.

Zakrzewski, H., s. Cybinski, D. H.